## Claims

- A method for the determination of carbohydrate-free transferrin in a body fluid for use in the assessment of alcohol consumption, said method comprising
- contacting a sample of said body fluid with a carbohydrate-binding /ligand, to bind any carbohydrate or carbohydrate-containing moieties in said sample to said ligand;
- separating a fraction not binding to said ligand and
- determining the content of transferrin in said (C) fraction.
- A method as/claimed in claim 1, wherein the sample is blood or a blood-derived sample.
- A method as claimed in claim 1 or claim 2, wherein the carbohydrate binding ligand is selected from antibodies or fragments thereof, lectins and mammalian or microbial carbohydrate-binding proteins, or mixtures thereof.
- A method as claimed in any one of claims 1 to 3 wherein in \$tep (a) a panel of different lectins are used.
- A method as claimed in any one of claims 1 to 4, wherein the carbohydrate binding ligand is selected from Sambucus higra lectin, Sambucus sielbodiana lectin, wheatgern agglutinin, Maackia amurensis lectin, E. coli K99 lectin, Helicobacter pylori lectin, Ricinus communis lectin, and Crotalaria junctae lectin, and anti-sialic acid antibodies, and mixtures thereof.
- A method as claimed in any one of claims 1 to 5, wherein the separation step (b) is by precipitation, centrifugation, filtration or chromatographic methods.

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- A method as claimed in any one of claims 1 to 7, 8. wherein an ion exchange step to remove or deplete carbohydrate-carrying transferrins in the sample is performed prior to step (a).
- A method as claimed in any one of claims 1 to 8, 9. wherein the determination of transferrin content in step (c) is achieved by turbidometric or nephelometric means.
- A kit for use in a method as defined in any one of claims 1 to 9, said kit comprising:

one or more carbohydrate-binding ligands; and means for the detection of transferrin.

A kit as claimed in claim 10, wherein said means for detection of transferrin comprise an antitransferrin antibody or antibody fragment; and preferably, an opacification enhancer.

A kit as claimed in claim 10 or claim 1 further comprising a transferrin solution of known concentration or a set of such solutions having a range of transferrin concentrations.

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